0.00

Memo

QC

Quality Control

Dart Aerospace	Ltd
----------------	-----

W/O:			V	VORK ORD	ER CHAN	GES					,		
DATE	STEP	PRO	CEDURE CH	IANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No	•	PAR #:	Fault Category:					No DQ	A:	Date:	Date:		
				_ Disposition: QA: N/C Clos						Date: _	· · · · · · · · · · · · · · · · · · ·		
NCR:		W	ORK OR	DER NON-	CONFORM	ANCE	E (NCF	R)					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Actio	Action Second Description Chief Eng	ction B	Sign & Date		cation ion C	Approval Chief Eng	Approval QC Inspector		
			Officer Errig		Officer Eng		<u> </u>						
•													
						·					·		
		·											
									•				
		-											

82568

Page 2

	/04/2012	rror Assembly, 6 inch	Round				100	-		1 74 1 1
Keierence:	7/04/2012	Start Qty: 4.00 Req'd Qty: 4.00	*4* *4*		Cust Item Customer:	ID:			Stop	*NS2*
Approvals: Pr	rocess Plan	n:	Date:			ate:	-	F	Run Start Stop	*NR1* *NR2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty		Reject Insp. Number Stamp
130		Pick Kit		0.00			Couc	Qty	Qiy	vulliber Stamp
130 Packaging Packaging		Мето		0.00					10/2	17/24
										Ho-
140		QC4- 100% Inspect kits	for completeness	0.00						
140 QC Quality Control		Мето	<i>y</i>	0.00 Enl	stol					
			•		•					
150				0.00						_
150 Packaging Packaging		Packaging Memo Identify and	pack for shipping as per	0.00 PPP D407-588-047 and DS	S19436			-/6	19/8/	5) (4)

Dart Aerospac	e Ltd
---------------	-------

w/o:82	2568	WORK ORDER C	HANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: <u>0407-558-04</u>	7_ PAR #:	Fault Category: ♀∞. ♀∧५	NCR: Yes No	DQA:	Date: 1	2/05/02	_
Resolution:	Rowert	Disposition:	QA: N/C Closed:	-Ch	Date: _\	25	7

NČR:	·	W	UHK OH	DER NON-CONFORMANC	E (NCK)	•		1
DATE	STEP	Description of NC Section A	Corrective Action Section B				Approval Chief Eng	Approva QC Inspecto
,2JailDF	# (00)	PA+ Missing on who Pick tist to 72N instruction bist R.C. who not creates correctly	5 12/4/27 05/047	-ADD MISSIN Pat to Lits MS 35489-67 Grammel- BILLIEZ ON HRETUL C MIDOLOGO DY C - UPDATE WO + BOM. ADD WPY of BOM JR Rel.	र्वा । स्वार्म	5 rilutoj	12/04/27 02/2042 02/2042	12/1/27 12/1/17
				•			·	

Item ID: Revision ID:	D407-558-0	47		Accept	*N900	040	100)*	Setup	Start	*N.S	31*
Item Name:	Dual Cargo M	lirror Assembly, 6 inch l	Round							Stop	*NS	32*
Start Date:	03/04/2012	Start Qty: 4.00	*4*		Cust Item I	D:						••
Required Date:	17/04/2012	Req'd Qty: 4.00	*4*		Customer:							
Reference:			-									
Approvals:	Process Pla	ın:	Date:	Tooling:	Da	 ite:	- 		Run	Start	*NF	?1 *
	QC:	·····	Date:	SPC (Y/N):	Da	nte:				Stop	*NF	72*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		•	Insp. Stamp
160		QC21- Final Inspection -	Work Order Release	0.00					- •			iΛ.
160 QC Quality Control		Memo		0.00						2/	5/2	. 7

Dart Aerospace Ltd

	•							
W/O:			M	ORK ORDER CHANG	GES			,
DATE	STEP	PI	ROCEDURE CH	IANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			·	WP				
Part No	•	PAR #:	Fault Car	tegory:	NCR: Yes	No DQA:	Date:	
Resolution:			Disposit	ion:	QA: N/C Cld	osed:	Date: _	·
NCR:			WORK OR	DER NON-CONFORM	ANCE (NCR)		
DATE	STEP	Description of NC			ction B	Verification	Approval	Approval
DAIL	SILP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
•	4							
· · · · · · · · · · · · · · · · · · ·								·
							,	
-								
						·		

Picklist Print

April-03-12 8:35:50 AM

Work Order ID: 82568

82568

Parent Item:

D407-558-047

D407-558-047

Parent Item Name:

Dual Cargo Mirror Assembly, 6 inch Round

Start Date: 03/04/2012

Required Date: 17/04/2012

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP Rev:A 09-01-16 new issue DD verified by:ec

Purchased

11.01.19 AS PER chg002 DD VERF:EC

IPP REV:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	 Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Sta	atus
AN3-4A		Purchased	No	 		Each	682.0000	لنه	16			
AN3-4A								**		,		S
Bolt								-				<i>₩</i>

Location	Loc Qty	Loc Code	
ST350	682		
104291	4		
104625	300		104635
117317	98		
120308	80		
120770	200		
	Each	144.0000	16

Location	Loc Qty	Loc Code
ST347	100	
121060	100	
ST348	44	
114382	4	
116900	4	
117395	36	
	Each	0.0000

NAS1149D0332J Purchased

No

No

**

Page 1

Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANG	iES				,
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	:								
							ļ		
Part No	•	PAR #:	Fault Cate	jory:	_ NCR: Yes	No DQ	A:	Date: _	
		esolution:							
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NC	R)			
DATE	STED	Description of NC			Section B Verif			Approval	Approval
DAIL	STEP Description of NC Section A		Initial Chief Eng	Action Description Chief Eng	cription Sign & Date		Section C Chief Eng		QC Inspector
*									
·									
		· · · · · · · · · · · · · · · · · · ·							
					,				
					1				

 Location
 Loc Oty
 Loc Code

 ST222
 7

 64745
 1

 73054
 6

Dart Aerospace	Ltd
----------------	-----

1440			387	ODIC ODDED OUT	NOTO						
W/O:			W	ORK ORDER CHA	NGES					<u>,</u>	
DATE	STEP	PRO	OCEDURE CHA	NGE	By Date				Date Qty Approval Chief Eng / Prod Mgr		

Part No		PAR #:	Fault Cate	gory:	NCF	t: Yes N	o DQ	٨:	Date: _	 	
	R	esolution:	Dispositio	n:	QA:	N/C Clos	sed:		Date: _		
NCR:		,	WORK ORDER NON-CON			(NCR)					
DATE	STEP	Description of NC Section A	Initial	Corrective Action Action Description	Section B	Sign &	Verific Section		Approval Chief Eng	Approval QC Inspector	
		Section A	Chief Eng	Chief Eng		Date	Secilo)II C	Onle Ling	QO INSPECTO	
_								·			
		,									
								•			
								'			
	1		1		1		1			l '	

Dart Aerospace Ltd	t	
--------------------	---	--

W/O:			W	ORK ORDER CHANGES)				
DATE STEP PROCEDURE CHANGE By Date						ate Qty Approval Chief Eng / Prod Mgr			
							,		
		·							
Part No		PAR #:	Fault Cate	gory: f	ICR: Yes	No DQ	A:	Date:	
	R	esolution:	Dispositio	A: NC C	osed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORMAN	CE (NCR)			:
DATE	STEP	Description of NC	Description of NC Corrective Action Section B				ation	Approval	Approval
	U.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
		1				1			

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-558 REV. 0

REF: CANADIAN STC SH92-17 REF: FAA STC SH1031NE

IT HAS COME TO DART'S ATTENTION THAT A LONGER CABLE IS REQUIRED WHEN INSTALLING THE DART D206-558-041/-043 SINGLE/DUAL CARGO MIRROR ASSEMBLY ON A BHT 407 AIRCRAFT. THIS IS DUE TO THE MIRROR INSTALLATION BEING MOVED FORWARD TO PICK UP ON EXISTING SET OF SCREW HOLES ON THE BELLY OF THE AIRCRAFT AS SHOWN IN FIGURE 3 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER.

IT IS ACCEPTABLE TO REPLACE THE D2071 CABLE ASSEMBLY WITH D2071-3 CABLE ASSEMBLY. FURTHERMORE, IT MAY BE NECESSARY TO REPLACE THE MS35489-9 GROMMET WITH MS35489-67 GROMMET TO ACCOMODATE A POSSIBLE VARIANCE IN MATERIAL THICKNESS ON A BHT 407 AIRCRAFT AS OPPOSED TO A BHT 206 AIRCRAFT.

CUSTOMERS INSTALLING EXISTING D206-558-041/-043 KIT ON A BHT 407 AIRCRAFT MUST PROCURE THE FOLLOWING KIT FROM DART:

DSI 9436-011 PARTS LIST:

Qty -011	Part Number	Description
X	DSI 9436-011	CABLE CHANGE KIT
1	D2071-3	CABLE ASSEMBLY (REPLACES D2071)
11	MS35489-67	GROMMET (REPLACES MS35489-9)

INSTALL THE D2071-3 CABLE ASSEMBLY AND MS35489-67 GROMMET PER INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND MAINTAIN PER ICA-D206-558 REV. 0.

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT

WITHOUT NOTICE

WORK ORDER MLJ NO. 82568 MLJ

12/04/03

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY:
D. SHEPHERD (DE # 02)

DATE:
D8.12.04
CERT. NO.:
SH92-17
ISSUE NO.:
7

$\overline{}$				101	
A	NEW IS	SUE		MB	08.12.04
REV.	<u> </u>		DESCRIPTION	BY	DATE
DESIGN		14	DART AEROS	SPACE	ITD
DRAWN		*	HAWKESBURY, ON		
CHECKE	ED	Pet	DRAWING NO.		REV. A
MFG. AF	PPR.	N/A/	DSI 9436	9	SHEET 1 OF 2
APPRO\	/ED	W	TITLE		SCALE
DE APPI	R.	#	CABLE CHANGE		NTS
DATE	08.12	2.04	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WHITTEN PERMISSION FROM DART AEROSPACE LTD.		

Dart Aerospace Ltd	Dar	t Aer	ospa	ace	Ltd
--------------------	-----	-------	------	-----	-----

	. o - Part									
W/O:			W	ORK ORDER CHANG	GES					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR: Y	es N	o DQ /	A :	_ Date: _	
Resolution:			Disposition:			QA: N/C Closed:			Date:	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	CR)				
DATE	STEP Description of NC		Corrective Action		Section B Sign &		Verification		Approval	Approval
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng		ate	Section	on C	Chief Eng	QC Inspector
								· ·		
										
·										
L. A										
* C	1 1				1		I	1		1

H:\\FORMS\Quality Assurance\approved QA\NCRWO RevE

FROM THIS POINT FORWARD, CUSTOMERS SHOULD ORDER D407-558-045/-047 IN LIEU OF D206-558-041/-043 WHEN PROCURING SINGLE/DUAL MIRRORS FOR BHT 407 MODELS. AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND 25.3 AND 25.4 OF ICA-D206-558 REV. 0 AS FOLLOWS:

4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER) 25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

1		LA	TERAL	LONGITUDINAL		
Installation	Weight	Arm	Moment	Arm	Moment	
D206-558-041	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
D206-558-043	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb	
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg	
D407-558-045	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
D407-558-047	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb	
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg	

5.0 PARTS LIST (D206-558 REV. C OR EARLIER) 25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	Х			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		Х		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	1	2	D2011-101	
2	2	2	2	D2011-101	MIRROR ASSEMBLY
1	1	1	1	D2052	BRACKET
2	2	2	2	D2053	BRACKET
1	1	1	- 4		BUSHING
_	1		 	D2055	CLAMP
1	'	1	11	D2056	BELLCRANK ASSEMBLY
- ¦		1		D2057	PLUG
!		1		D2065	ARM
	1		1	D2066	ARM
1	1	1	1	D2067	CONNECTOR
_ 1	11		<u> </u>	D2071	CABLE ASSEMBLY
		1	1	D2071-3	CABLE ASSEMBLY
1	2	1	2	D3014-1	* LOCKNUT
11	1	1	1	D3778-1	BRACKET
4	4	4	4	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	1	2	AN960JD416L	* WASHER
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3)
2	2	2	2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1-18	SCREW
1	1				
		1	1		
11		1	1	MS35489-9 MS35489-67	GROMMET GROMMET

* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 08.12.04 CERT. NO.: SH92-17 ISSUE NO.: 7

DESIGN		DART AEROSPACE LTD			
DRAWN		HAWKESBURY, ONT	ARIO, CANADA		
CHECKED	M	DRAWING NO.	REV. A		
MFG. APPR.	NA	DSI 9436	SHEET 2 OF 2		
APPROVED	M	TITLE	SCALE		
DE APPR.	-44-	CABLE CHANGE	NTS		
DATE 08.1	2.04	COPYRIGHT © 2008 BY DAR THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUF NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COM-	T AEROSPACE LTD		

alsoo

Dart Aerospace Ltd

	ospaoi	Liu							
W/O:		,	W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		ang.							
		•	es N						
Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Dispositio	n:	QA: N/C Closed: Date:			-	
NCR:		V	VORK ORD	ER NON-CONFORMA	ANCE (NCF	1)			
DATE ST	0750	TEP Description of NC Section A		on B	Verific	cation	Approval	Approval	
	SIEP		Initial Chief Eng	Action Description Chief Eng	Sign & Date			Chief Eng	
· · ·									
						į			
•				,					
					ŀ				
<u> </u>									

^{*} HNFORMS\Quality Assurance\approved QA\NCRWO RevE

AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV.C OR EARLIER AND SECTIONS 25-3 AND 25-4 OF ICA-D206-558 REV. D AS FOLLOWS: CE ONLY

4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER) 25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

		LATERAL		LONGITUDINAL		
Installation	Weight	Arm	Moment	Arm	Moment	
D206-558-041 Bell 206A/B/L/L1/L3/L4	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
D206-558-043	1.09 Kg 3.0 lb	+0.13 m	+0.14 m-Kg 0.0 in-lb	+0.38 m +14.8 in	+0.41 m-Kg +44.4 in-lb	
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg	
D407-558-045 Bell 407	2.4 lb 1.09 Kg	+5.0 in +0.13 m	+12.0 in-lb +0.14 m-Kg	+14.8 in +0.38 m	+35.5 in-lb +0.41 m-Kg	
D407-558-047 Bell 407	3.0 lb	0.0 in 0.0 m	0.0 in-lb 0.0 m-Kg	+14.8 in +0.38 m	+44.4 in-lb +0.52 m-Kq	

5.0 PARTS LIST (D206-558 REV. C OR EARLIER) 25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
X				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1	2	1	12-	·D2011-101	MIRROR ASSEMBLY
2	2	2	2	D2052	BRACKET
1	1	1	.1	D2053	BRACKET
2	2	2	2	D2054	BUSHING
1	1	1	1	D2055	CLAMP
1	1	1	1	D2056	BELLCRANK ASSEMBLY
1		1		D2057	PLUG
1		1		D2065	ARM
	1		1 -	-D2066	ARM
1	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-5	CABLE ASSEMBLY
1	2	_ 1	2	D3014-1	LOCKNUT
1	1			D3778-1	BRACKET
		1	7.4	D3778-3	BRACKET
4	4	4	4.	AN3-4A	BOLT
4	4	4	4	AN526-1032R9	SCREW
1	2	1	2	AN960JD416L	*WASHER
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3)
2	2	2	- 2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
		1	1	MS35489-67	GROMMET

* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY: D. SHEPHERD (DE # 02)

DATE: 12,03.26
CERT. NO.: SH92-17
ISSUE NO.: 7

DESIGN	MB	DART AEROSPACE LTD				
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA				
CHECKED		DRAWING NO.	REV. A			
MFG. APPR.	N/A	DSI 9604	SHEET 3 OF 3			
APPROVED	1AR	TITLE	SCALE			
DE APPR.	#	MIRROR UPGRADE	NTS			
DATE 12.0	3.26	COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS COCLAMENT IS PRIVATE AND COMPIDENTIAL NOT IS SUPPLIED ON THE EXPRESS ON THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMINGACINED TO ANY OTHER PERSON WITHOUT				